

Message Text

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PAGE 01 SEOUL 05890 070837Z
ACTION OES-07

INFO OCT-01 EA-10 ISO-00 SOE-02 NRC-05 IO-13 ACDA-12
CIAE-00 INR-10 NSAE-00 PM-05 DODE-00 EB-08 /073 W
-----041724 070845Z /20

P R 070710Z JUL 78
FM AMEMBASSY SEOUL
TO SECSTATE WASHDC PRIORITY 2133
DOE WASHDC
DOE GERMANTOWN
INFO AMEMBASSY TOKYO

C O N F I D E N T I A L SEOUL 5890

DEPT FOR OES/NET R. LIIMATAINEN
DOE WASHDC FOR R. WILLIT
DEPT PASS NRC J. LAFLEOUR

E.O. 11652: GDS
TAGS: ENRG, TECH, KS
SUBJECT: KO-RI 1 OPERATION, JUNE 26 - JULY 7

REF: SEOUL 5474

1. INSPECTION OF LEAKING EXPANSION JOINT (TWO IN-LINE SINGLE
PLY BELLOWS OPERATED BY EIGHT INCH PIPE LENGTH) BETWEEN NO. 2
LOW PRESSURE TURBINE AND DEAERATOR SHOWED ERROSION OF BELLOWS
DOWNSTREAM OF INTERNAL LINER WHERE LINER DID NOT EXTEND FAR
ENOUGH TO PROTECT LAST BELLOWS CONVOLUTION FROM STREAM FLOW
EFFECTS. INSPECTION OF NO. 1 LOW PRESSURE TURBINE EXPANSION
JOINT SHOWED SIMILAR ERROSIVE EFFECTS. INSTEAD OF INSTALLING
NEW EXPANSION JOINTS (REFTEL), BOTH EXPANSION JOINTS WERE
REWORKED (THE DOWN STREAM BELLOWS WERE REMOVED FROM EACH UNIT)
AND REINSTALLED IN THE LINE. IT SHOULD BE NOTED THAT THE
BELLOWS MATERIAL IS TYPE 304 AUSTENITIC STAINLESS STEEL
WHICH IS SUSCEPTIBLE TO CHLORIDE STRESS CORROSION.
KO-RI 1 IS OPERATING WITH A SEA WATER COOLED CONDENSER
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PAGE 02 SEOUL 05890 070837Z

THAT HAS ABOUT 4000 LEAKING TUBES, ALSO MADE OF AUSTENITIC
STAINLESS STEEL, THAT TEMPORARILY HAVE BEEN PLUGGED
UNTI REPLACEMENT IS POSSIBLE DURING A REACTOR FUELING
SHUTDOWN. PROBLEMS ARISING FROM CHLORIDE STRESS
CORROSION IN NUCLEAR POWER PLANT SECONDARY SYSTEMS
USUALLY OCCUR FIRST IN DEAERATORS INCORPORATING
AUSTENITIC COMPONENTS THAT ARE EXPOSED TO CHLORIDES

IN THE PRESENCE OF OXYGEN.

2. AT 2128 HOURS 28 JUNE THE PLANT WAS CONNECTED TO THE GRID AND OUTPUT RAISED TO 400 MWE. AT 0810 HOURS 29 JUNE, THE REACTOR SCRAMMED (AUTOMATIC) BECAUSE OF A PROBLEM IN THE GLAND SEAL WATER SYSTEM OF A MAIN FEEDWATER PUMP. AT 2118 HOURS 30 JUNE THE PLANT WAS CONNECTED TO THE GRID AND 400 MWE OUTPUT REACHED AT 1052 HOURS ON 2 JULY .

3. AT 1920 HOURS 2 JULY PLANT OUTPUT WAS RAISED TO 500 MWE.
STERN

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NNN

Message Attributes

Automatic Decaptioning: X
Capture Date: 01 jan 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: NUCLEAR POWER PLANTS
Control Number: n/a
Copy: SINGLE
Draft Date: 07 jul 1978
Decaption Date: 01 jan 1960
Decaption Note:
Disposition Action: RELEASED
Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment: 25 YEAR REVIEW
Disposition Date: 20 Mar 2014
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
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From: SEOUL
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ISecure: 1
Legacy Key: link1978/newtext/t19780785/aaaacttc.tel
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Litigation Codes:
Litigation History:
Locator: TEXT ON-LINE, ON MICROFILM
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Secure: OPEN
Status: NATIVE
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TAGS: ENRG, TECH, KS
To: STATE DOE
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Review Markings:
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